

July 2012 Summary

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July 2012 Highlights

- Across western and central North Dakota
 - Significantly above normal temperatures
 - Below normal precipitation
 - Drought/abnormally dry conditions continued

July Temperatures (°F)

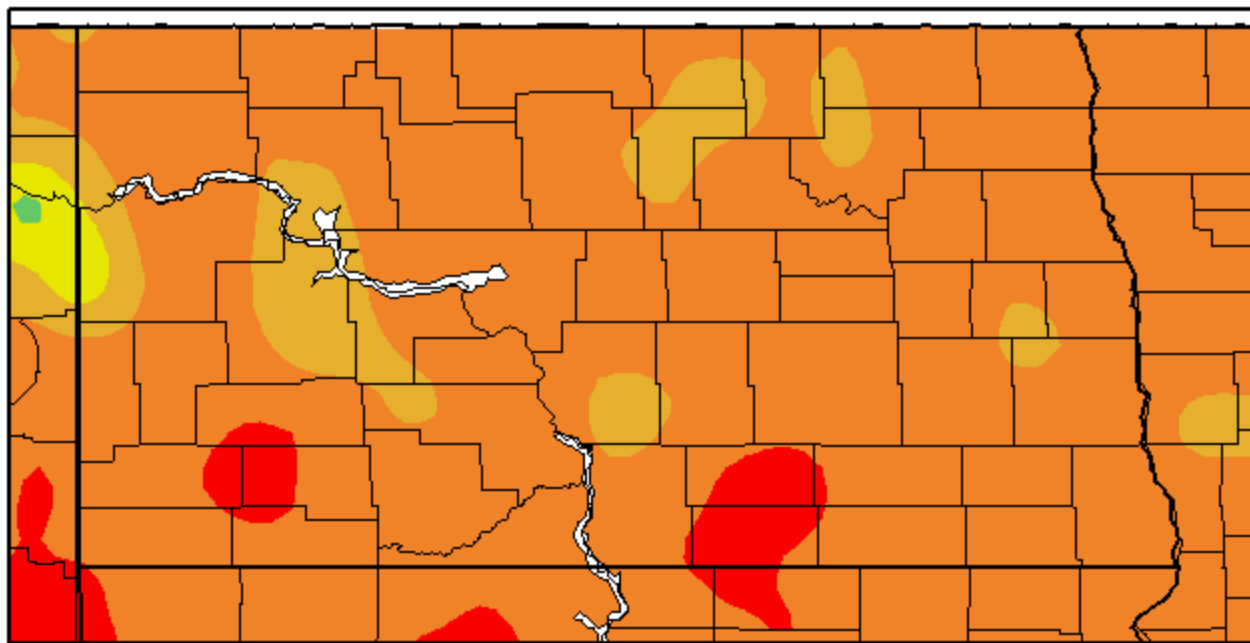
| Site and year observations began | Average (Above Normal) | Maximum (Above Normal) | Minimum (Above Normal) |
|-------------------------------------|---------------------------|---------------------------|---------------------------|
| Bismarck (1874) | 75.7 (4.6) | 89.7 (5.0) | 61.6 (4.2) |
| Williston (1894) | 75.0 (4.9) | 89.1 (4.7) | 60.9 (5.1) |
| Dickinson (1893) | 75.1 (5.9) | 90.7 (7.1) | 59.5 (4.6) |
| Minot (1905) | 74.9 (5.2) | 87.3 (5.8) | 62.6 (4.7) |
| Jamestown (1893) | 74.7 (4.8) | 86.7 (4.3) | 62.8 (5.5) |

Just how warm was July compared to previous years?

| Site and year observations began | Average Monthly Temperature | Average Daily High Temperature | Average Daily Low Temperature |
|----------------------------------|-----------------------------|--------------------------------|-------------------------------|
| Bismarck (1874) | 6 th | 7 th * | 8 th |
| Williston (1894) | 5 th | 8 th | 7 th |
| Dickinson (1893) | 2 nd | 2 nd | 2 nd |
| Minot (1905) | 2 nd | 5 th | 1 st |
| Jamestown (1893) | 9 th | 20 th * | 3 rd |

* Denotes a tie

Departure from Normal Temperatures (°F) (Average Monthly) for July



Generated 8/2/2012 at HPRCC using provisional data.

Regional Climate Centers

U.S. Drought Monitor

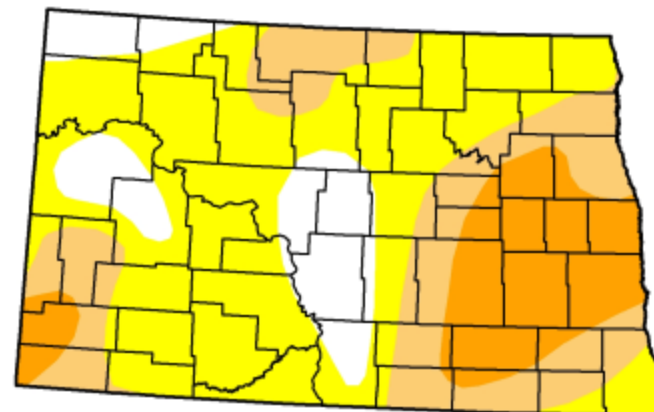
North Dakota

July 31, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|--------|-------|-------|-------|-------|------|
| Current | 13.23 | 86.77 | 38.20 | 16.28 | 0.00 | 0.00 |
| Last Week (07/24/2012 map) | 12.95 | 87.05 | 30.46 | 16.22 | 0.00 | 0.00 |
| 3 Months Ago (05/01/2012 map) | 49.34 | 50.66 | 14.15 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year (12/27/2011 map) | 25.96 | 74.04 | 8.67 | 0.00 | 0.00 | 0.00 |
| Start of Water Year (09/27/2011 map) | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago (07/26/2011 map) | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>

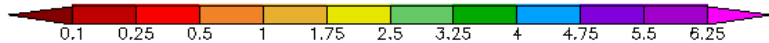
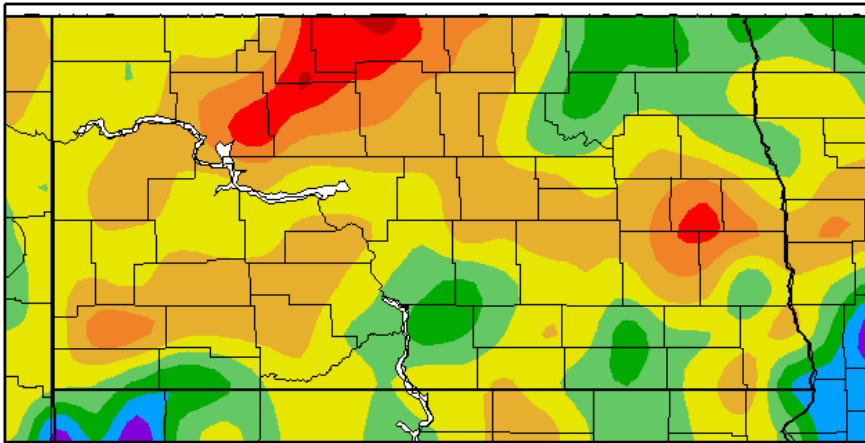


Released Thursday, August 2, 2012
Mark Svoboda, National Drought Mitigation Center

July Precipitation (inches)

| Site (year observations began) | Precipitation | Departure from Normal | Rank as driest compared to previous years |
|--------------------------------------|---------------|--------------------------|---|
| Bismarck (1874) | 2.65 | -0.24 | 92 nd |
| Williston (1894) | 1.89 | -0.65 | 63 rd |
| Dickinson (1893) | 1.16 | -1.28 | 28 th |
| Minot (1905) | 0.67 | -1.76 | 10th |
| Jamestown (1893) | 2.21 | -1.14 | 45 th |

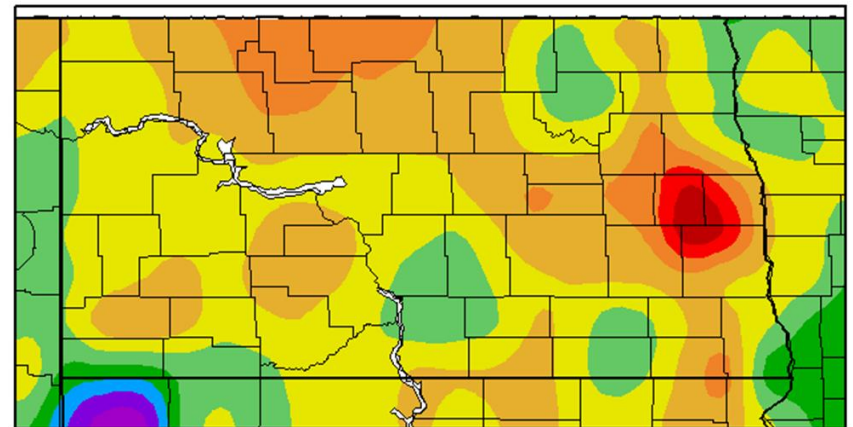
Precipitation (inches) for July



Generated 8/2/2012 at HPRCC using provisional data.

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Departure from Normal Precipitation (inches) for July



Generated 8/2/2012 at HPRCC using provisional data.

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Summary

- Across western and central North Dakota
 - Top 10 ranked July for above average temperatures at all major observation sites.
 - Below normal precipitation
 - Top 10 driest July in Minot when compared to previous years.
 - Current drought/abnormally dry conditions across the region are due in part to increased evaporation from above normal temperatures, and a lack of rainfall.